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=> s formoterol
L1   5953 FORMOTEROL

=> s steroid
L2   631202 STEROID

=> s inflammatory
L3   978119 INFLAMMATORY

=> s L2 and L3
L4   35237 L2 AND L3

=> s L1 and L4
L5   120 L1 AND L4

=> s L5 and (AY<2002 or PY<2002 or PRY<2002)
'2002' NOT A VALID FIELD CODE
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   2 FILES SEARCHED...
'2002' NOT A VALID FIELD CODE
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L6   40 L5 AND (AY<2002 OR PY<2002 OR PRY<2002)

=> dup rem L6
PROCESSING COMPLETED FOR L6
L7   40 DUP REM L6 (0 DUPLICATES REMOVED)

=> s water
L8   4384561 WATER

=> s L7 and L8
L9   3 L7 AND L8

=> d 1-3 L9 ibib abs

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:813911 CAPLUS Full-text
DOCUMENT NUMBER: 137:316082
TITLE: Formoterol/steroid bronchodilating compositions and methods of use thereof
INVENTOR(S): Banerjee, Partha S.; Chaudry, Imitiaz A.
PATENT ASSIGNEE(S): Dey LP, USA
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083113	A2	20021024	WO 2002-US6252	20020301 <--
WO 2002083113	A3	20030320		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20030055026	A1	20030320	US 2001-887496	20010622 <--
CA 2444535	A1	20021024	CA 2002-2444535	20020301 <--
AU 2002250199	A1	20021028	AU 2002-250199	20020301 <--
AU 2002250199	B2	20070726		
EP 1385494	A2	20040204	EP 2002-719098	20020301 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005512944	T	20050512	JP 2002-580917	20020301 <--
US 20020183293	A1	20021205	US 2002-145978	20020513 <--
PRIORITY APPLN. INFO.:			US 2001-284607P	P 20010417 <--
			US 2001-887496	A1 20010622 <--
			WO 2002-US6252	W 20020301

AB Bronchodilating compns. intended for administration as a nebulized aerosol are provided. In certain embodiments, the compns. contain formoterol, or a derivative thereof, and a steroidal anti- inflammatory agent. Methods for treatment, prevention, or amelioration of one or more symptoms of bronchoconstrictive disorders using the compns. provided herein are also provided. For example, a solution was prepared containing Formoterol fumarate dihydrate 85 μg/mL, budesonide 125 μg/mL, vitamin E TPGS 10 μg/mL, Polyethylene glycol 10 μg/mL, citrate buffer 50mM, sodium chloride 7.5 mg/mL, and water as needed.

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:555336 CAPLUS Full-text
DOCUMENT NUMBER: 137:114526
TITLE: A method for the preparation of nanoparticles
INVENTOR(S): Watanabe, Wiwik; Kauppinen, Esko; Ahonen, Petri; Brown, David; Muttonen, Esa
PATENT ASSIGNEE(S): Orion Corporation, Finland

SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002056866	A1	20020725	WO 2002-FI42	20020118 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002229791	A1	20020730	AU 2002-229791	20020118 <--
EP 1351666	A1	20031015	EP 2002-710900	20020118 <--
EP 1351666	B1	20080227		
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JP 2004520157	T	20040708	JP 2002-557374	20020118 <--
AT 387185	T	20080315	AT 2002-710900	20020118 <--
US 20040091542	A1	20040513	US 2003-466365	20031211 <--

PRIORITY APPLN. INFO.: FI 2001-115 A 20010118 <--
WO 2002-FI42 W 20020118

AB The invention relates to free nano-sized particles of active agents e.g. therapeutic, cosmetic or diagnostic agents, and to a method for the preparation of such particles. The method comprises providing a liquid feed stock comprising an active agent or combination of two or more active agents, atomizing the liquid feed stock, suspending the droplets in a carrier gas, and passing the carrier gas and droplets through a heated tube flow reactor under predetd. residence time and temperature history, and collecting the particles produced. Nano-sized crystalline spherical uncharged particles with narrow aerodynamic particle size distribution and rough surfaces, are obtained. The particles show improved dissoln. rate in-vitro and bioavailability in-vivo, dispersibility and stability. Nanosized beclomethasone dipropionate particles were prepared

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:833060 CAPLUS Full-text
DOCUMENT NUMBER: 135:376741
TITLE: Stable metal ion-lipid powdered pharmaceutical compositions
INVENTOR(S): Dellamary, Luis A.; Riess, Jean; Schutt, Ernest G.; Weers, Jeffry G.; Tarara, Thomas E.
PATENT ASSIGNEE(S): Alliance Pharmaceutical Corp., USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2001085137	A2	20011115	WO 2001-US14824	20010508 <--
WO 2001085137	A3	20020418		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6630169	B1	20031007	US 2000-720536	20001222 <--
CA 2408464	A1	20011115	CA 2001-2408464	20010508 <--
EP 1282405	A2	20030212	EP 2001-933194	20010508 <--
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JP 2003533449	T	20031111	JP 2001-581791	20010508 <--
MX 2002PA11003	A	20040819	MX 2002-PA11003	20021108 <--
AU 2002318867	A1	20030410	AU 2002-318867	20021210 <--
AU 2006200277	A1	20060216	AU 2006-200277	20060123
AU 2006200277	B2	20080410		
AU 2006200768	A1	20060316	AU 2006-200768	20060224 <--
AU 2006236049	A1	20061207	AU 2006-236049	20061115 <--
KR 2008031532	A	20080408	KR 2008-707331	20080326 <--

PRIORITY APPLN. INFO.:	US 2000-568818	A	20000510 <--
	AU 1999-10644	A3	19980929 <--
	WO 1999-US6855	W	19990331 <--
	AU 2001-61246	A3	20010508 <--
	WO 2001-US14824	W	20010508 <--
	KR 2002-715136	A3	20021111
	AU 2002-318867	A3	20021210
	AU 2003-204270	A3	20030520

AB Microparticle compns. comprising metal ion-lipid complexes for drug delivery are described including methods of making the microparticle compns. and methods of treating certain conditions and disease states by administering the microparticle compns. The metal ion-lipid complexes can be combined with various drugs or active agents for therapeutic administration. The microparticle compns. of the present invention have superior stability to other microparticle compns. resulting in a microparticle composition with longer shelf life and improved dispersibility. The microparticle compns. of the present invention have a transition temperature (Tm) of at least 20° above the recommended storage temperature (Tst) for drug delivery. An aqueous preparation was prepared by mixing two prepns., A and B, immediately prior to spray drying. The preparation A was comprised of a fluorocarbon-in-water emulsion in which 26 g perfluorooctyl bromide was dispersed in 33 g water with the aid of 1.30 g of SPC-3 emulsifier (hydrogenated soy phosphatidylcholine). The preparation B contained 0.162 g CaCl2.2H20 and 0.162 g budesonide dissolved/suspended in 4 g water. The resulting microparticle of the sample had a PL-budesonide-CaCl2.2H20 weight ratio of about 80:10:10. The mean volume aerodynamic particle size of the dry powder was approx. 4.1 µm.

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=> s L1 and water
L10         118 L1 AND WATER

=> s L10 and L2
L11          15 L10 AND L2
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=> dup rem L11
PROCESSING COMPLETED FOR L11
L12          15 DUP REM L11 (0 DUPLICATES REMOVED)

=> s L12 and (AY<2003 or PY<2003 or PRY<2003)
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
   2 FILES SEARCHED...
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
'2003' NOT A VALID FIELD CODE
L13          6 L12 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> d 1-6 L13 ibib abs

L13  ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2004:531336  CAPLUS  Full-text
DOCUMENT NUMBER:          141:76760
TITLE:                    Pharmaceutical porous particles comprising lipid
                          carriers
INVENTOR(S):              Harwigsson, Ian
PATENT ASSIGNEE(S):       Adagit, Swed.
SOURCE:                   PCT Int. Appl., 58 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
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     WO 2004054556        A1    20040701    WO 2003-SE1952          20031215 <--
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
             NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
             TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
             TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2509216           A1    20040701    CA 2003-2509216         20031215 <--
     AU 2003287132        A1    20040709    AU 2003-287132          20031215 <--
     EP 1569626           A1    20050907    EP 2003-781201          20031215 <--
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2006511617        T     20060406    JP 2005-508295          20031215 <--
     US 20060002995       A1    20060105    US 2005-149927          20050610 <--
PRIORITY APPLN. INFO.:                      SE 2002-3687        A   20021213 <--
                                            US 2003-457396P     P   20030325
                                            WO 2003-SE1952      W   20031215
AB    The present invention relates to a pharmaceutical, preferably inhalable,
      porous, free flowing particle to be used in therapeutical applications,
      optionally comprising a therapeutically active compound or substance, whereby
      the particle consists of one or more network forming compds., which in diluted
      solns. self assocs. to large three dimensional structures having a d. of < 0.5
      g/cm3.  A solution consisting of dipalmitoylphosphatidylcholine 1 g and
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dimyristoylphosphatidylcholine 2 g was mixed with 180 μL water and 300 mL hexane. The total solution was heated until a viscous solution was obtained. The solution was dried to give a product comprising porous low d. particles having a large 3 dimensional network. The powders 0.01 g were mixed with dry particles of formoterol 0.005 g in a vial for inhalation.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:813911 CAPLUS Full-text
DOCUMENT NUMBER: 137:316082
TITLE: Formoterol/steroid bronchodilating compositions and methods of use thereof
INVENTOR(S): Banerjee, Partha S.; Chaudry, Imitiaz A.
PATENT ASSIGNEE(S): Dey LP, USA
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083113	A2	20021024	WO 2002-US6252	20020301 <--
WO 2002083113	A3	20030320		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20030055026	A1	20030320	US 2001-887496	20010622 <--
CA 2444535	A1	20021024	CA 2002-2444535	20020301 <--
AU 2002250199	A1	20021028	AU 2002-250199	20020301 <--
AU 2002250199	B2	20070726		
EP 1385494	A2	20040204	EP 2002-719098	20020301 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2005512944	T	20050512	JP 2002-580917	20020301 <--
US 20020183293	A1	20021205	US 2002-145978	20020513 <--
PRIORITY APPLN. INFO.:			US 2001-284607P	P 20010417 <--
			US 2001-887496	A1 20010622 <--
			WO 2002-US6252	W 20020301 <--

AB Bronchodilating compns. intended for administration as a nebulized aerosol are provided. In certain embodiments, the compns. contain formoterol, or a derivative thereof, and a steroidal anti-inflammatory agent. Methods for treatment, prevention, or amelioration of one or more symptoms of bronchoconstrictive disorders using the compns. provided herein are also provided. For example, a solution was prepared containing Formoterol fumarate dihydrate 85 μg/mL, budesonide 125 μg/mL, vitamin E TPGS 10 μg/mL, Polyethylene glycol 10 μg/mL, citrate buffer 50mM, sodium chloride 7.5 mg/mL, and water as needed.

L13 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:555336 CAPLUS Full-text
DOCUMENT NUMBER: 137:114526
TITLE: A method for the preparation of nanoparticles
INVENTOR(S): Watanabe, Wiwik; Kauppinen, Esko; Ahonen, Petri; Brown, David; Muttonen, Esa
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002056866	A1	20020725	WO 2002-FI42	20020118 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002229791	A1	20020730	AU 2002-229791	20020118 <--
EP 1351666	A1	20031015	EP 2002-710900	20020118 <--
EP 1351666	B1	20080227		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004520157	T	20040708	JP 2002-557374	20020118 <--
AT 387185	T	20080315	AT 2002-710900	20020118 <--
US 20040091542	A1	20040513	US 2003-466365	20031211 <--
PRIORITY APPLN. INFO.:			FI 2001-115 A	20010118 <--
			WO 2002-FI42 W	20020118 <--

AB The invention relates to free nano-sized particles of active agents e.g. therapeutic, cosmetic or diagnostic agents, and to a method for the preparation of such particles. The method comprises providing a liquid feed stock comprising an active agent or combination of two or more active agents, atomizing the liquid feed stock, suspending the droplets in a carrier gas, and passing the carrier gas and droplets through a heated tube flow reactor under predetd. residence time and temperature history, and collecting the particles produced. Nano-sized crystalline spherical uncharged particles with narrow aerodynamic particle size distribution and rough surfaces, are obtained. The particles show improved dissoln. rate in-vitro and bioavailability in-vivo, dispersibility and stability. Nanosized beclomethasone dipropionate particles were prepared

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:833060 CAPLUS Full-text
DOCUMENT NUMBER: 135:376741
TITLE: Stable metal ion-lipid powdered pharmaceutical compositions
INVENTOR(S): Dellamary, Luis A.; Riess, Jean; Schutt, Ernest G.; Weers, Jeffry G.; Tarara, Thomas E.
PATENT ASSIGNEE(S): Alliance Pharmaceutical Corp., USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 15
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 2001085137	A2	20011115	WO 2001-US14824	20010508	<--
WO 2001085137	A3	20020418			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW					
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US 6630169	B1	20031007	US 2000-720536	20001222	<--
CA 2408464	A1	20011115	CA 2001-2408464	20010508	<--
EP 1282405	A2	20030212	EP 2001-933194	20010508	<--
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JP 2003533449	T	20031111	JP 2001-581791	20010508	<--
MX 2002PA11003	A	20040819	MX 2002-PA11003	20021108	<--
AU 2002318867	A1	20030410	AU 2002-318867	20021210	<--
AU 2006200277	A1	20060216	AU 2006-200277	20060123	<--
AU 2006200277	B2	20080410			
AU 2006200768	A1	20060316	AU 2006-200768	20060224	<--
AU 2006236049	A1	20061207	AU 2006-236049	20061115	<--
KR 2008031532	A	20080408	KR 2008-707331	20080326	<--

PRIORITY APPLN. INFO.:

US 2000-568818	A	20000510	<--
AU 1999-10644	A3	19980929	<--
WO 1999-US6855	W	19990331	<--
AU 2001-61246	A3	20010508	<--
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KR 2002-715136	A3	20021111	<--
AU 2002-318867	A3	20021210	<--
AU 2003-204270	A3	20030520	

AB Microparticle compns. comprising metal ion-lipid complexes for drug delivery are described including methods of making the microparticle compns. and methods of treating certain conditions and disease states by administering the microparticle compns. The metal ion-lipid complexes can be combined with various drugs or active agents for therapeutic administration. The microparticle compns. of the present invention have superior stability to other microparticle compns. resulting in a microparticle composition with longer shelf life and improved dispersibility. The microparticle compns. of the present invention have a transition temperature (Tm) of at least 20° above the recommended storage temperature (Tst) for drug delivery. An aqueous preparation was prepared by mixing two prepns., A and B, immediately prior to spray drying. The preparation A was comprised of a fluorocarbon-in-water emulsion in which 26 g perfluorooctyl bromide was dispersed in 33 g water with the aid of 1.30 g of SPC-3 emulsifier (hydrogenated soy phosphatidylcholine). The preparation B contained 0.162 g CaCl2.2H2O and 0.162 g budesonide dissolved/suspended in 4 g water. The resulting microparticle of the sample had a PL-budesonide-CaCl2.2H2O weight ratio of about 80:10:10. The mean volume aerodynamic particle size of the dry powder was approx. 4.1 μm.

ACCESSION NUMBER: 2000:254113 CAPLUS Full-text
DOCUMENT NUMBER: 132:284231
TITLE: Storable formulation of active substance
INVENTOR(S): Hochrainer, Dieter; Zierenberg, Bernd
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19847970	A1	20000420	DE 1998-19847970	19981017 <--
CA 2345675	A1	20000427	CA 1999-2345675	19991009 <--
CA 2345675	C	20080506		
WO 2000023037	A1	20000427	WO 1999-EP7589	19991009 <--
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AU 9963370	A	20000508	AU 1999-63370	19991009 <--
AU 761858	B2	20030612		
BR 9914608	A	20010703	BR 1999-14608	19991009 <--
EP 1119334	A1	20010801	EP 1999-950688	19991009 <--
EP 1119334	B1	20030129		
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TR 2001001095	T2	20010821	TR 2001-1095	19991009 <--
HU 2001003888	A2	20020228	HU 2001-3888	19991009 <--
HU 2001003888	A3	20020828		
HU 224244	B1	20050628		
EE 200100225	A	20020815	EE 2001-225	19991009 <--
EE 4514	B1	20050815		
JP 2002527205	T	20020827	JP 2000-576814	19991009 <--
NZ 511646	A	20021126	NZ 1999-511646	19991009 <--
AT 231715	T	20030215	AT 1999-950688	19991009 <--
EP 1291013	A2	20030312	EP 2002-14579	19991009 <--
EP 1291013	A3	20031126		
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ES 2187202	T3	20030516	ES 1999-950688	19991009 <--
PT 1119334	T	20030630	PT 1999-950688	19991009 <--
PL 194220	B1	20070531	PL 1999-347365	19991009 <--
EG 23069	A	20040229	EG 1999-1285	19991014 <--
TW 466111	B	20011201	TW 1999-88117882	19991015 <--
IN 2001MN00352	A	20050715	IN 2001-MN352	20010303 <--
BG 105390	A	20011130	BG 2001-105390	20010329 <--
BG 64523	B1	20050630		
NO 2001001830	A	20010618	NO 2001-1830	20010410 <--
NO 321748	B1	20060626		
HR 2001000273	A1	20020630	HR 2001-273	20010412 <--
US 20010032643	A1	20011025	US 2001-871500	20010531 <--
US 6481435	B2	20021119		
US 20030066524	A1	20030410	US 2002-256781	20020927 <--
US 6986346	B2	20060117		
US 20050159441	A1	20050721	US 2005-77681	20050311 <--
US 7040311	B2	20060509		

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DE 1998-19847970	A	19981017 <--
US 1998-112380	P	19981214 <--
US 1998-112380P	P	19981214 <--
EP 1999-950688	A3	19991009 <--
WO 1999-EP7589	W	19991009 <--
US 1999-416476	A1	19991012 <--
US 2001-871500	A1	20010531 <--
US 2002-256781	A1	20020927 <--

AB A storage-stable formulation of an active substance in the form of a concentrated solution or suspension in an atomizer or cartridge is provided for use in inhalers. The concentrate is diluted with H2O or solvent immediately before the 1st use of the composition Stability of suspended particles of the active substance in the formulation is enhanced by addition of an alkali metal or ammonium chloride or salt of an organic acid. The active substance may be a β-mimetic, anticholinergic, or antiallergic drug, platelet-activating factor antagonist, leukotriene antagonist, and/or steroid. Thus, a suspension of 5 mg formoterol (particle size 5 μm) in 0.015 mL water was adjusted to pH 5.0 with fumaric acid for storage. This suspension was diluted with 4.5 mL H2O/EtOH (1:1) containing benzalkonium chloride 0.45 and Na EDTA 2.25 mg, adjusted to pH 5.0 with HCl, for inhalation.

L13 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:	1999:133202 CAPLUS Full-text
DOCUMENT NUMBER:	130:200925
TITLE:	Finely divided pharmaceutical particles for inhalation
INVENTOR(S):	Briggner, Lars-Erik; Bystrom, Katarina; Jakupovic, Edib; Trofast, Eva; Trofast, Jan
PATENT ASSIGNEE(S):	Astra Aktiebolag, Swed.
SOURCE:	U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 459,660. CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5874063	A	19990223	US 1996-606655	19960226 <--
AU 9215347	A	19921117	AU 1992-15347	19920324 <--
AU 662519	B2	19950907		
EP 580648	A1	19940202	EP 1992-907877	19920324 <--
EP 580648	B1	19960508		
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JP 06506454	T	19940721	JP 1992-507195	19920324 <--
JP 3400999	B2	20030428		
EP 680752	A2	19951108	EP 1995-111178	19920324 <--
EP 680752	A3	19951122		
EP 680752	B1	20011114		
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PL 168232	B1	19960131	PL 1992-301008	19920324 <--
RU 2112507	C1	19980610	RU 1993-58260	19920324 <--
SK 280310	B6	19991108	SK 1993-1088	19920324 <--
CZ 286936	B6	20000816	CZ 1993-2116	19920324 <--
JP 2003155228	A	20030527	JP 2002-347368	19920324 <--
NO 9303575	A	19931006	NO 1993-3575	19931006 <--
NO 311867	B1	20020211		
FI 105388	B1	20000815	FI 1993-4429	19931008 <--
US 5709884	A	19980120	US 1995-379471	19950130 <--

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     US 5637620           A     19970610    US 1995-459660         19950602 <--
     US 5562923           A     19961008    US 1995-479494         19950607 <--
PRIORITY APPLN. INFO.:                      SE 1991-1090        A  19910411 <--
                                            SE 1993-2777        A  19930827 <--
                                            US 1993-129204      B1 19931025 <--
                                            US 1995-379471      B3 19950130 <--
                                            US 1995-459660      A2 19950602 <--
                                            US 1995-479494      A2 19950607 <--
                                            SE 1996-141         A  19960116 <--
                                            CS 1993-2116        A  19920324 <--
                                            EP 1992-907877      A3 19920324 <--
                                            JP 1992-507195      A3 19920324 <--
                                            WO 1992-SE186       A  19920324 <--
                                            WO 1994-SE780       W  19940825 <--
AB    There are described finely divided particles of a pharmaceutical substance,
      wherein the substance when submitted to water vapor gives off heat of less
      than 1.2 J per g, processes for their production and pharmaceutical
      formulations containing them.  An example is given of salbutamol sulfate (25%)
      and lactose (75%) conditioned with water at relative humidity 55-65%,
      nonconditioned micronized substance mixture (5-8 J/g) and conditioned
      micronized mixture (<0.5 J/g).
REFERENCE COUNT:          21    THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
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